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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/522,140 01/24/2005		01/24/2005	Tino Arlt	449122076800	3993		
25227	7590	08/10/2006	·	EXAM	EXAMINER		
		ERSTER LLP	TRAN, I	TRAN, BINH Q			
1650 TYSO SUITE 300	N2 ROOF	LEVARD	ART UNIT	PAPER NUMBER			
MCLEAN,	VA 2210)2	3748	3748			
			DATE MAILED: 08/10/2006				

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicat	ion No.	Applicant(s)					
		10/522,1	40	ARLT ET AL.					
	Office Action Summary	Examine	r	Art Unit					
		BINH Q.		3748					
Period fo	The MAILING DATE of this commun r Reply	nication appears on th	e cover sheet with th	e correspondence address -	F				
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MINISTRY BY STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MINISTRY BY STATUTORY PERIOD FOR CHEVER IS LONGER BY STATUTORY BY STATU	MAILING DATE OF T is of 37 CFR 1.136(a). In no e munication. tatutory period will apply and v y will, by statute, cause the ap	HIS COMMUNICATI vent, however, may a reply be vill expire SIX (6) MONTHS fr plication to become ABANDO	ON. timely filed om the mailing date of this communica NED (35 U.S.C. § 133).					
Status									
1)	Responsive to communication(s) file	ed on							
·	This action is FINAL . 2b)⊠ This action is non-final.								
′=	Since this application is in condition	<i>'</i> —		prosecution as to the merits	s is				
,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims	·	•						
4)⊠	Claim(s) 1-9 is/are pending in the a	oplication.							
•	4a) Of the above claim(s) is/are withdrawn from consideration.								
	Claim(s) is/are allowed.								
	Claim(s) 1-9 is/are rejected.								
-	Claim(s) is/are objected to.								
	☐ Claim(s) are subject to restriction and/or election requirement.								
Applicati	on Papers								
	•	e Evaminer		•					
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.									
.0,	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11)	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
,—	ınder 35 U.S.C. § 119								
-	•	for foreign priority	ndor 25 11 C.C. S 110	(a) (d) or (f)					
	Acknowledgment is made of a claim ⊠ All b) Some * c) None of:	for foreign priority ur	ider 35 U.S.C. § 119	(a)-(d) or (i).					
a)	_ _	documents have be	on received						
	 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 								
	2. Certified copies of the priority3. Copies of the certified copies		• •						
	·	, -		ived iii tiiis ivationai Stage					
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.									
* See the attached detailed Office action for a list of the certified copies not received.									
Attachmen	t(s)		_						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date									
	e of Draftsperson's Patent Drawing Review (mation Disclosure Statement(s) (PTO-1449 o			al Patent Application (PTO-152)					
	r No(s)/Mail Date <u>01/24/2005</u> .		6)						
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DETAILED ACTION

Receipt and entry of Applicant's Preliminary Amendment dated January 24, 2005 is acknowledged.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1-9 are rejected under 35 U.S.C. 102 (e) as being anticipated by Moraal et al. (Moraal) (Patent Number 6,574,956).

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Regarding claims 1 and 4, Moraal discloses a method for regenerating a particulate filter (10), which is mounted in an exhaust gas channel of an internal combustion engine (5), filters particles out of the exhaust gas flowing inside of the exhaust gas channel and is intermittently regenerated during operation, comprising: measuring actual air mass flow (MAF_{mes}) supplied to the internal combustion engine; adapting a model for determining the an air requirement (MAF_{des}) to be expected at a current operating point to the actual air mass flow; and regeneration of the particulate filter is initiated if the model lies outside a predetermined parameter ranges after the adaptation (e.g. See Claims 4-8; col. 3, lines 49-67; col. 4, lines 1-67).

Regarding claim 2, Moraal further discloses that the regeneration is triggered if a difference of the actual air mass flow from the calculated air requirement exceeds a predetermined threshold value (e.g. See Claims 4-8; col. 3, lines 49-67; col. 4, lines 1-67).

Regarding claim 3, Moraal further discloses that the air requirement is determined taking an empty or cleaned particulate filter as starting point (e.g. See Claims 4-8; col. 3, lines 49-67; col. 4, lines 1-67).

Regarding claim 5, Moraal further discloses that the model is adapted to the actual air mass flow, whereby at least one adjustment value is suitably set and a regeneration is triggered if the adjustment value is outside the predetermined ranges (e.g. See Claims 4-8; col. 3, lines 49-67; col. 4, lines 1-67).

Regarding claim 6, Moraal further discloses that the determination of the air requirement, other variables influencing the air requirement than accumulation of particles in the particulate filter are taken into consideration (e.g. See Claims 4-8; col. 3, lines 49-67; col. 4, lines 1-67).

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Regarding claim 7, Moraal further discloses that the determination of the air requirement and a decision as to whether a regeneration is triggered occur at discrete operating points of the internal combustion engine (e.g. See Claims 4-8; col. 3, lines 49-67; col. 4, lines 1-67).

Regarding claim 8, Moraal further discloses that the air requirement is calculated for control of the internal combustion engine, whereby a partly loaded filter is taken as a starting point (e.g. See Claims 4-8; col. 3, lines 49-67; col. 4, lines 1-67).

Regarding claim 9, Moraal further discloses that the actual air mass flow supplied to the internal combustion engine is determined by an air mass measuring device mounted in an intake tract of the internal combustion engine, or by a pressure sensor mounted in the intake tract of the internal combustion engine (e.g. See Claims 4-8; col. 3, lines 49-67; col. 4, lines 1-67).

Prior Art

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure and consists of five patents:

Boretto et al. (Pat. No. 6941750), Ootake (Pat. No. 6698192), Ono et al. (Pat. No. 6438948), Kuboshima et al. (Pat. No. 7051519), and Saito et al. (Pat. No. 6735941) all discloses an exhaust gas purification for use with an internal combustion engine.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Examiner Binh Tran whose telephone number is (571) 272-4865. The

examiner can normally be reached on Monday-Friday from 8:00 a.m. to 4:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Thomas E. Denion, can be reach on (571) 272-4859. The fax phone numbers for the organization

where this application or proceeding is assigned are (571) 273-8300 for regular communications

and for After Final communications.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

BT

August 04, 2006

Binh Q. Tran

Patent Examiner

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